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TWENTY-SEVENTH

ANNUAL REPORT

OF THE

Boston Protective Department,

From March 1, 1900, to March 1, 1901.

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TWENTY-SEVENTH

ANNUAL REPORT

OF THE

Boston Protective Department,

From March 1, 1900, to March 1, 1901.

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OFFICERS.

President:

GEORGE A. EASTMAN.

Vice-President:

B. B. WHITTEMORE.

Secretary-Treasurer:

EDWARD SPAULDING.

Directors:

TO SERVE UNTIL MARCH, 1901.

B. B. WHITTEMORE. W. H. ROGERS.

G. C. HOLT.

TO SERVE UNTIL MARCH, 1902.

GEORGE A. EASTMAN. W. H. ELLISON.

RICHARD F. BARRETT.

TO SERVE UNTIL MARCH, 1903.

GEORGE P. FIELD. FREDERIC HINCKLEY.

EDWARD C. BRUSH.

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BOSTON, March 13th, 1901.

The Directors submit herewith the 27th Annual Report of the Department, with the reports of the Superintendent, Secretary, Treasurer and Medical Officer, and the usual statistical tables.

The Board recommend, first, that the active duties of the Department be continued for the ensuing year; second, that the Directors be authorized to expend for the maintenance of the Department during the year a sum not exceeding Eighty Thousand Dollars.

In recommending this appropriation the Directors would state that Company No. 3 has been in service for more than eighteen months and the maximum yearly expense would seem to be established. It is therefore felt that the present efficient service can be maintained, under ordinary conditions, at a sum not exceeding Seventy-five Thousand Dollars. As the margin last year was small, however, it is thought expedient to have a sufficient amount available to meet any emergency that may arise.

The sinking fund inaugurated by the Board of Directors in 1899 from fees received from watch duty, has been increased during the past year. If this fund be continued and applied to the purchase of House No. 3, under the option in the Lease, a considerable saving of rent can be made.

For the Directors,

GEORGE A. EASTMAN,

President.

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TREASURER'S

RECEIPTS AND EXPENDITURES OF THE BOSTON

1900. March.	By Cash on hand, Balance		$10,994.41	
	Balance of Assessment January 1, 1900		19,940.48	
	Assessment of July 1, 1900		40,981.25	
	Collected of Assessment January 1,* 1901		7,491.65	
	Cash received for Watch Duty		1,333.17	
	Cash received for Automatic Fire Alarm Credit		59.39	
	Cash received for Interest		224.54	
	Cash received from Various Sources		52.57	
				$81,077.46
	*Balance uncollected	$26,291.65		

NET RUNNING EXPENSES.

March, 1876, to March, 1877	$27,311.72
March, 1877, to March, 1878	26,922.86
March, 1878, to March, 1879	23,975.96
March, 1879, to March, 1880	25,733.80
March, 1880, to March, 1881	28,288.46
March, 1881, to March, 1882	26,593.69
March, 1882, to March, 1883	26,399.49
March, 1883, to March, 1884	35,177.68
March, 1884, to March, 1885	35,253.10
March, 1885, to March, 1886	37,047.94
March, 1886, to March, 1887	33,833.64
March, 1887, to March, 1888	38,534.07
March, 1888, to March, 1889	39,861 16
March, 1889, to March, 1890	45,527.88
March, 1890, to March, 1891	42,706.85
March, 1891, to March, 1892	44,144.12
March, 1892, to March, 1893	54,344.08
March, 1893, to March, 1894	58,655.41
March, 1894, to March, 1895	56,125.42
March, 1895, to March, 1896	61,423.48
March, 1896, to March, 1897	60,171.90
March, 1897, to March, 1898	60,767.10
March, 1898, to March, 1899, reserved for Equipment of House No. 3 $3,000 and	64,875.01
March, 1899, to March 1900, " " " " " " " 1,269.31 and	67,719.57
March, 1900, to March, 1901,	71,500.76

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REPORT.

PROTECTIVE DEPARTMENT FOR YEAR ENDING MARCH, 1901.

To Cash paid:—		
Pay-roll, Permanent force, Company No. 1	$17,347.77	
Auxiliary " " "	4,169.86	
Call " " "	300.06	
Permanent " " No. 2	13,995.87	
Auxiliary " " "	4,089 30	
Permanent " " No. 3	9,001.35	
Auxiliary " " "	127.12	
Call " " "	722.05	
Paid for Watch Duty After Fires	721.04	
Secretary, Treasurer and Office	2,850 00	
Medical Officer	500.00	
Rent and Taxes of Houses	8,041.22	
Hay and Grain	1,360.92	
Wagon and Harness Repairs	573.44	
Horseshoeing	590.64	
Fuel	678.15	
Gas	534.20	
Washing	314.13	
Supplies	603.44	
New England Telephone and Telegraph Co.	812.80	
Automatic Fire Alarm and Electric Apparatus	249.79	
Water Tax	146.80	
Repairs and Furnishing of Houses	528.74	
Veterinary Services	235.38	
Sundries	279.84	
Directors', and Committee Meetings	109.00	
Printing and Stationery	2,035.35	
Advertising Annual Meeting	48.00	
Auditors' Fees	60.00	
Surety Bond	40.00	
Employers' Liability	499.17	
Horse Purchase and Hire	330.00	
Legal Advice	60.00	
Wagon Damage	15.00	
		$71,970.43
Assessments Remitted		51.81
Suspense Account Overdue Assessments		241.22
Sinking Fund For Building Purchase		1,200.00
Balance, Cash on Hand		7,614.00
		$81,077.46

E. & O. E.

EDWARD SPAULDING, *Treasurer.*

BOSTON, March, 15, 1901.

Audited and found correct to date.

EDWARD D. BLAKE,
JOHN H. EDDY,
FRED'K W. PORTER, } *Auditing Committee.*

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SUPERINTENDENT'S REPORT.

HEADQUARTERS PROTECTIVE DEPARTMENT,
OFFICE OF SUPT. NO. 40 PURCHASE ST.,

BOSTON, March 1st, 1901.

TO THE PRESIDENT AND BOARD OF DIRECTORS:

Gentlemen: In compliance with Article IV, of By-Laws of the corporation of the Boston Protective Department, authorized by an Act entitled "An act to incorporate the Boston Protective Department," passed March 9, 1874, amended February 4, 1879, I herewith submit the Twenty-seventh Annual Report of operations of the Department for the year 1900, ending March 1, 1901.

The several tables of statistics heretofore submitted, have been extended to include the period above mentioned. (See Secretary's Report and Exhibits.)

ORGANIZATION.

The organization of the Department continues the same as last year.

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Superintendent, SAMUEL ABBOTT, JR.

Secretary-Treasurer, EDWARD SPAULDING.

Medical Officer, DR. WM. F. TEMPLE.

Co. No. 1. 40 Purchase St.	Total	Co. No. 2. 4 Appleton St.	Total	Co. No. 3. Roxbury, cor. Gay Sts.	Total	Grand Total
Captains, James H. Huff	1	Daniel W. Brown	1	Henry E. Thompson	1	3
1st. Lieuts., Jas. T. Fitzgerald	1	John J. McCarthy	1	None	0	2
2d. Lieuts., James H. Ryan	1	John P. Lane	1	Samuel A. McDonnell	1	3
First Grade Privates	3		3		1	7
Second " "	0		3		0	3
Third " "	5		3		3	11
Fourth " "	1		1		2	4
Auxiliary "	9		9		0	18
Call "	1		0		4	5
Clerk	1		0		0	1
Janitor and Messenger	0		0		1	1
Totals	23		22		13	58

BUILDINGS, ALARMS, FIRES, INSURANCE AND LOSS FOR 1901.

On January 1, 1900 there were 25,200 brick, stone, iron, and 55.739 frame buildings in the City of Boston, making a total of 80,939 buildings; during the year there were 614* brick, stone, iron, and 1238* frame buildings completed. 20 frame buildings were totally destroyed by fire, 18 brick and 28 frame buildings were demolished in various parts of the city, making the total number of buildings at the end of the year 25,796 brick, stone, iron, and 56,929 frame; grand total 82,725 buildings.

The total alarms during the year 1900 (January 1st to December 31st inclusive) were 1,779 of which 1,560 were for fires; of these 734 occurred in brick, stone and iron buildings, 634 in frame buildings and 192 outside; the number of fires to 1,000 population were 3.17.

Of these fires 1138 were confined to the floor where they originated, 1290 to the building where they originated, 47 extended to adjoining property, and 31 extended beyond adjoining property; the per cent. of fires confined to building where they originated was .83.

The total loss on buildings and contents was $1,674,776.44, total

*By courtesy of Inspection of Building Department City of Boston.

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insurance, $18,033,141.01 and the total insurance loss was $1,407,584.56 the above was divided as follows:—

Total loss on buildings	492,656.27
Total insurance loss on buildings	435,426.12
Total insurance on buildings	11,317,560.01
Per cent of total loss not insured on buildings	11.62
Total loss on contents	1,182,120.17
Total insurance loss on contents	972,158.44
Total insurance on contents	6,715,581.00
Per cent of total loss, not insured, on contents	12.23

The loss per capita was $2.99 which does not include the Marine, Fire and Rent losses.

The total Rent loss was $47,154.74 and the total insurance theron was $203,750.

The per cent of grade of alarms and losses for 1900 were as follows:—

35.64 had no loss.
32.83 the loss was under $100.
17.70 " " " from $100 to $500.
4.33 " " " " $500 to $1,000
6.69 " " " " $1,000 to $5,000.
1.40 " " " " $5,000 to $10,000.
.34 " " " " $10,000 to $15,000.
1.07 " " " over $15,000.
100

THE OPERATIONS OF THE DEPARTMENT FOR THE YEAR ENDING March 1st, 1901, ARE AS FOLLOWS:—

		Co. No. 1.	Co. No. 2.	Co. No. 3.
Alarms.	Bell	554	550	458
	Still	79	75	34
	Automatic	81	39	5
Responded to by	Wagon	563	582	403
	Callmen	223	117	118
Total alarms.		714	664	497
Hours Duty.	At fires	636.20	608.41	493.07
	After fires protecting goods	262.21	104.42	28.19
	Watch	4,403.50	1,812.30	552.35
	Total	5,302.31	2,525.53	1,074.01
Covers Used.	On goods	2,203	1,675	230
	" protecting from storms	59	10	0
	On roofs	76	114	74
	Total	2,338	1,799	304
Extinguishers used		23	51	28

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Second Section (in section) Called in Service.

		Co. No. 1.	Co. No. 2.	Co. No. 3.
First Alarm	When 1st out section was at fire	8	10	19
	When all other sections were at fire	0	0	0
	When covering a company district	0	5	9
Second Alarms	2d Alarms . . .	26	21	10
	With 2d section wagon during day time . . .	3	1	0
Telephone calls		2	2	2
Messenger calls		0	1	0
Covering	When both sections of a company were at fire . .	3	36	29
Auxiliary Force retained on day duty after a fire		12	8	0
" " " " " " extra hazardous days . . .		2	1	0
Protecting roofs		0	0	0
Totals		56	85	69

The total number of alarms and fires were 1772 it being 21 less than last year.

There were 1,326$\frac{34}{60}$ hours' fire service, 6,768¼ hours' watch duty and 392$\frac{28}{60}$ hours' service, protecting buildings and contents from storms, equivalent to 848 days of 10 hours each, it being 190 days less in comparison with the previous year. There were 4,108 covers used in covering goods at fires, 69 on goods and 264 on roofs, protecting the buildings and contents after fires from additional damage by storms; which makes a total of 4,441 covers used; representing 959,256 square feet, it being 65,664 square feet more than was spread last year.

Review of alarms and fires for twenty years, from 1881 to 1900 inclusive; commencing March 1st, and ending the last day of February of each year.	**In City Districts,**		Exhibit A.	Page	30
	Causes, ...		" B.	"	31
	Hours of the Day,	65 per cent of alarms and fires have occurred between the hours of 12 o'clock noon and 12 o'clock midnight.	" C.	"	32
	Days of the Week, ...		" D.	"	32
	Insurance and loss on buildings and contents,			"	19
Review of losses on buildings and contents for twenty years from 1881 to 1900 inclusive, commencing January 1 and ending December 31st of each year.	**Insurance and Loss,**	15.95 per cent. of total loss on buildings and contents was not insured.		"	26
	Grade of Losses,	61.56 per cent. of all alarms were for fires with a loss; the average loss for each fire was $2.420.47.	Exhibit E.	Page	32

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SPRINKLERS.

The operations of the department in buildings equipped with the sprinkler system, for the year ending March 1, 1901, were as follows:—

Date.	Street.	Duty Performed H. M.	Covers Spread.	Sprink'r Heads replaced	Loss. Building.	Loss. Contents.	Cause.
Mar. 4, 1900	A Street,	5.50	23	1	None	$33.65	Frost.
" 8, "	Rutherford Ave.,	1.15	12	0	None	None	Fire operated sprinkler head.
" 13, "	Western Ave.,		0	0	None	$5,017.61	Fire operated sprinkler head.
" 21, "	81 Hawley,	.14	0	0	None	None	Workmen letting on water to system.
" 23, "	68 Essex,	.28	0	0	None	None	Workmen draining sprinkler pipes.
" 26, "	514 Atlantic Ave.,	.27	2	0	None	None	Workman accidentally breaking pipes.
April 5, "	152 Congress,	.17	0	0	None	None	Unknown.
" 5, "	277 Congress,	.36	4	1	None	762.93	Sprinkler break.
" 15, "	1337 Washington,	1.16	0	1	$175.00	None	Fire operated sprinkler head.
" 19, "	558 Washington,	.32	0	0	None	None	Varying street pressure.
" 21, "	185 Essex,	1.50	8	1	None	$639.23	Unknown.
" 21, "	121 Medford	1.16	0	0	None	$280.00	Fire operated sprinkler head.
" 27, "	281 Congress,	.30	0	1	None	None	Leaky sprinkler head.
" 28, "	273 Congress,	.40	0	0	None	None	Probably water hammer.
" 29, "	417 Washington,	.21	0	0	None	None	Probably water hammer.
May 2, "	3 Randolph,	.34	0	0	None	None	Water hammer.
" 2, "	181 Essex,	.15	0	0	None	None	Water hammer.
" 6, "	152 Congress,	.35	0	0	None	None	Water hammer.
" 7, "	Bickford & Centre,		0	0	None	$91 34	Sprinkler leak.
" 10, "	3 Randolph,	.13	0	0	None	None	Water hammer.
June 7, "	558 Washington,	1.42	0	1	None	None	Excessive heat opened sprinkler head.
" 7, "	277 Congress,	.36	1	1	None	None	Workmen breaking sprinkler head
" 16, "	152 Congress,	.41	1	1	None	None	Leaky sprinkler head.
" 17, "	232 Dover,	.23	0	0	None	None	Water hammer.
" 25, "	417 Washington,	.19	0	0	None	None	Water hammer.
July 12, "	89 Broad,	.29	0	0	None	None	Leaky sprinkler head.
" 21, "	128 Charlestown,	.54	0	0	None	None	Sprinkler break—heat from forge.
" 30, "	11 East,		0	0	None	$25.00	Leaky joint.
Aug. 4, "	556 Atlantic Ave.,	2.64	23	0	None	$456.44	Belting breaking sprinkler pipe.
" 13, "	Rear 610 AlanticAv.	5.56	3	1	None	$283 04	Fire operated sprinkler head.
" 14, "	53 Wareham,	.44	0	1	None	None	
Sept. 4, "	356 Washington,	.40	0	0	None	None	Leak.
" 16, "	94 Portland,	.34	0	0	None	None	Leaky pipe.

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SPRINKLERS—continued.

Date.	Street.	Duty Performed.	Covers Spread.	Sprink'r Heads replaced	Loss.		Cause.
		H. M.			Building.	Contents.	
Sept. 26.1900	128 Charlestown,	1.07	0	5	None	None	Overflow of tank.
" 28, "	83 South,	.28	0	0	None	None	Water hammer,
" 28, "	E. 9th & Burnham,	.33	0	0	None	$39.00	Explosion of kettle of japan.
" 29, "	277 Congress,	.19	0	0	None	None	Water hammer.
Oct. 3, "	Tileston Sq.,	2.16	27	0	None	$622 95	Sprinkler operated.
" 5, "	5-27 Winter,	1.27	0	0	None	$129.18	Employee breaking sprinkler head
" 15, "	15-96 Chauncy,	.27	0	0	None	None	Water hammer.
Nov. No Sp	rinkler calls.		0	0	None	None	
Dec. 3, 1900	520 Harrison Ave ,	1.51	0	0	None	None	Leak from tank on roof.
" 11, "	31 Hawley,	.22	0	0	None	None	Bursting of sprinkler pipe.
" 11, "	35 Harrison Ave.,	.33	0	0	None	None	Leaky sprinkler head in basement.
" 15, "	417 Washington,	Not notified.	0	0	None	None	Sprinkler burst in fan room—freezing.
" 17, "	277 Congress,	.38	0	0	None	None	Sprinkler head struck by case of goods.
" 18, "	85 Essex,	1.11	0	0	None	None	Probably water hammer.
" 19, "	281 Congress,	.25	0	0	None	None	Workman striking sprinkler head.
" 22, "	610 Atlantic Ave.,	.18	0	0	None	None	Bursting of sprinkler pipe on sixth floor.
" 23, "	610 Atlantic Ave.,	.57	0	0	None	None	Water hammer.
Jan. 7, 1901	273 Congress,	.31	0	0	None	None	Workman in basement striking sprinkler head.
" 10, "	118 Kneeland,	11.55	0	0	None	None	Break in vent pipe.
" 14, "	89 Beach,	.22	0	0	None	None	Water hammer.
" 14, "	17 East,	.55	2	0	None	None	Accidental breaking of pipe.
" 19, "	31 Hawley,	.11	0	0	None	None	Breaking of pipe by frost.
" 20, "	658 Washington,	2.08	8	0	None	$84.01	Cause unknown.
" 20, "	520 Harrison Ave ,	.25	0	0	None	None	In basement, cause unknown.
" 21, "	120 Fulton,	1.10	0	0	None	None	Freezing of pipe, first floor.
" 26, "	273 Congress,	.39	0	0	None	None	Accidental.
Feb. 11, "	9 Knapp,	4 50	82	0	None	None	Unknown.
" 11, "	East,	.24	0	0	None	None	Workman striking sprinkler head.
" 17, "	490 Hanover,	1.22	0	0	None	None	Water hammer.
" 27, "	Albany,	1 25	0	0	None	None	Breaking of supply pipe.

In conclusion, I desire to express my sincere thanks to all departments or persons who have in any way assisted this Department during the past year.

Respectfully submitted,

SAMUEL ABBOTT, JR.,
Superintendent.

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SCHEDULE OF PROPERTY.

OWNED BY THE DEPARTMENT AND CONTAINED IN HOUSES ONE, TWO AND THREE AND IN THE OUTLYING DISTRICTS.

Horses	14
Wagons large "complete"	5
Wagon small "complete"	1
Wagon large "spare"	1
Wagon supply	1
Pungs "complete"	3
Wagons for Superintendent	2
Sleighs " "	2
Rubber covers "stock"	582
Rubber covers "roof"	14
Canvas covers for roofs	4
Fire extinguishers	11
Life saving blankets	6
Sets of patent double harnesses	6
Single harnesses	2
Lead reins, 4 horse	5
Wagon poles "extra"	3
Wheels "extra"	4
Whiffletrees "extra"	5
Lead bars, 4 horse	5
Bedsteads with bedding	54
Billiard table "complete"	1
Fire hats	51

Necessary tools and equipments.
" stable equipments.
" extra parts of harnesses.
" house furniture and fixtures.
" telegraph apparatus.
" gas fixtures.
" supplies.
" stationery.

For detailed statement see Quarterly Report at Superintendent's Headquarters.

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Duty performed by Company No. 1, from March 1, 1900, to March 1, 1901.

Months.	Alarms responded to.							Hours on duty.				Covers spread.				Extinguishers used.	Second section of Company calls.												
	Box.	Still.	Automatic.	Wagons responded.	Callmen responded.	Total Alarms.	Sprinkler calls or operated.	At Fires.	Extra at Fires.	Watching after Fires.	Totals.	On Goods.	On Roofs.	Protecting Goods from Storms.	Totals.		When 1st out-section is at a fire.	When all other sections are at a fire.	When covering a company district.	Second Alarms.	With 2d section wagon during daytime.	Telephone Calls.	Messenger Calls.	Covering when both sections of a co. are at a fire.	Reporting at a fire during the daytime A. Force.	Auxiliary Force retained on duty during daytime.	Auxiliary Force on duty extra hazardous, days.	Protecting Roofs.	Totals.
								H. M.	H. M.	H. M.	H. M.						1st Alarms.			2d Al's.									
March, 1900	42	7	2	42	14	51	3	79.19	65.39	493.57	638.55	313	1	22	336	3				4						4			8
April, "	44	5	8	45	16	57	4	41.40	7.06	582.39	631.25	96	2	3	101	2	1			1				3		1			6
May, "	37	6	7	34	24	50		44.35	2.47	87.50	135.12	164	4		168					2									2
June, "	61	11	7	58	31	79	2	58.38	31.51	288.50	379.19	128	7	34	169	4	1			3							1		5
July, "	56	8	9	64	20	73	2	57.16	8.55	248.43	314.54	156	4		160	2				1							1		3
Aug., "	38	3	11	48	13	52	1	28.32	47.27	293.55	369.54	208	16		224					1		1				1			2
Sept., "	37	11	3	42	14	51	1	36.49	11.15	238.13	286.17	93	3		96	8					3	1				1			5
Oct., "	37	7	6	35	19	50		38.47	23	217.20	256.30	65	1		66														
Nov., "	45		5	38	21	50		43.16	7.39	184.37	235.32	118	3		121	1				2									2
Dec., "	70	9	10	72	26	89		84.47	33.13	950.14	1068.14	298	2		300	2	4			6									10
Jan., 1901	40	8	6	38	14	54	8	54.36	16.38	374.57	446.11	198	6		204					3									3
Feb., "	47	4	7	47	11	58	1	68.05	29.28	442.35	540.08	366	27		393	1	2			3						5			10
Totals . .	554	79	81	563	223	714	22	636.20	262.21	4403.50	5302.31	2203	76	59	2338	23	8			26	3	2		3		12	2		56

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Duty performed by Company No. 2, from March 1, 1900, to March 1, 1901.

Months.	Alarms responded to.							Hours on duty.				Covers spread.				Extinguishers used.	Second section of Company calls.											
	Box.	Still.	Automatic.	Wagons responded.	Callmen responded.	Total Alarms.	Sprinkler calls or operated.	At Fires.	Extra at Fires.	Watching after Fires.	Totals.	On Goods.	On Roofs.	Protecting Goods from Storms.	Totals.		When 1st out-section is at a fire. (1st Alarms.)	When all other sections are at a fire. (1st Alarms.)	When covering a company district. (1st Alarms.)	Second Alarms. (2d Al's.)	With 2d section wagon during daytime (2d Al's.)	Telephone Calls.	Messenger Calls.	Covering when both sections of a co. are at a fire.	Reporting at a fire during the daytime A. Force.	Auxiliary Force retained on duty during daytime.	Auxiliary Force on duty extra hazardous days.	Protecting Roofs.	Totals.
								H. M.	H. M.	H. M.	H. M.																	
March, 1900	41	5	2	42	6	48		45.14	4.25	56.02	105.41	172	14		186	9	1			5			1	2		2			11
April, "	41	6	3	28	4	50	1	37.48	3.00	91.44	132.32	40	5	2	47		1			1				4					6
May, "	34	5	4	40	8	43		35.09	17.37	257.02	309.48	232	15		247	5				2				1					3
June, "	50	6	3	52	14	59	1	40.01	1.30	38.22	79.53	104			104	3	1			1				4		2			9
July, "	56	12	6	65	13	74		70.19	6.00	119.08	195.27	107	3		110	3	2		2	3				6			1		13
Aug., "	37	8	1	42	7	46	1	55.49	3.30	91.35	150.54	131	8		139	9				1		1		2					4
Sept, "	40	2	2	42	9	44		41.29	1.20	60.50	103.39	35	5		40	1								3					3
Oct, "	42	3	4	44	14	49		40.45	5.43	126.20	172.48	69	8		77	2				1									1
Nov., "	36	5	3	41	10	44		38.37	34.88	254.04	328.09	102	33	8	143	1	1			2				2					5
Dec., "	63	11	6	70	11	80		67.24	10.24	111.31	189.19	169	6		175	3			1	3				6					10
Jan., 1901	57	5	4	61	9	66	1	56.48	4.54	378.02	439.44	137	13		150	7	1		1		1			4					7
Feb., "	53	7	1	55	12	61	2	79.18	10.51	227.50	317.59	377	4		381	8	3		1	2		1		2		4			13
Totals . .	550	75	39	582	117	664	6	608.41	104.42	1812.30	2525.53	1675	114	10	1799	51	10		5	21	1	2	1	36		8	1		85

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Duty performed by Company No. 3, from March 1, 1900, to March 1, 1901.

Months.	Alarms responded to.							Hours on Duty.				Covers spread.				Extinguishers used.	Second section of Company calls.												
	Box.	Still.	Automatic.	Wagons responded.	Callmen responded.	Total Alarms.	Sprinkler calls or operated.	At Fire.	Extra at Fires.	Watching after Fires.	Totals.	On Goods.	On Roofs.	Protecting Goods from Storms.	Totals.		When 1st out-section is at a fire. (1st. Alarms.)	When all other sections are at a fire. (1st. Alarms.)	When covering a company district. (1st. Alarms.)	Second Alarms. (2d. Al's.)	With 2d section wagon during daytime. (2d. Al's.)	Telephone Calls.	Messenger Calls.	Covering when both sections of a co are at a fire.	Reporting at a fire during the daytime A. Force.	Auxiliary Force retained on duty during daytime.	Auxiliary Force on duty extra hazardous, days.	Protecting Roofs.	Totals.
								H. M.	H. M.	H. M.	H. M.																		
March, 1900	30	2		27	6	32		35.03	1.38	36.45	73.26	12			12	4	2							4					6
April, "	49	1		38	14	50		39 14	1.40	2.50	43.44	18	7		25		1		2	2		1		1					7
May, "	30	2		27	6	32		29.58	3.00	23.05	56.03	14	10		24	4	1							1					2
June, "	43	4	2	42	9	49	2	43.54	6.55	7.15	58.04	38	14		52	2	1			1				2					4
July, "	66	3		54	18	69		62.33	3.37	34.25	100.35	54	11		65	2	6			3		1		1					11
Aug., "	33	2		30	6	35		41.11	3.30	93.15	137 56	32	10		42		1		1					3					5
Sept., "	38			30	9	38		40.27	3.00	91.40	135.07	15	4		19	3	2			1				2					5
Oct., "	23	5		21	6	28		23.20	1.00	9.40	34.00	6	4		10	1													
Nov., "	26	5	1	26	8	32		24.20		12.25	36.45		1		1	3	1		1					3					5
Dec., "	42	1	2	40	8	45		66.33	2.58	119.05	188.36	7			7	4				1				5					6
Jan., 1901	46	2		39	9	48		48 26	1 01	66.45	116.12	21	4		25	3	3		2	1				2					8
Feb., "	32	7		29	9	39		38 08		55.25	93 33	13	9		22	2	1		3	1				5					10
Totals . .	458	34	5	403	108	497	2	493 07	28.19	552.35	1074.01	230	74		304	28	19		9	10		2		29					69

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OFFICE OF SECRETARY-TREASURER,
40 PURCHASE STREET,
BOSTON, MARCH 1, 1901.

TO THE PRESIDENT AND DIRECTORS:

Gentlemen. — The amount of insurance involved, together with the fire losses sustained by the insurance companies from Jan. 1, 1900, to Dec. 31, inclusive, is as follows:

Insurance on buildings		$11,317,560.01
Loss on buildings		399,425.62
Insurance on contents		6,715,581.00
Loss on contents		972,158.44
Insurance on marine risks		
Loss on marine risks		
Insurance on rents		203,750.00
Loss on rents	Partially settled	47,154.74
Sprinkler insurance		150,000.00
Sprinkler loss	Partially settled	1,668.24

CAUSES OF FIRES AND ALARMS.

MARCH 1, 1900, TO FEB. 28, 1901, INCLUSIVE.

Ashes in wooden receptacles, hot	32
Buildings, defective	39
Causes not otherwise enumerated	344
Combustion spontaneous	45
Electricity	47
Fire works	47
Gas	92
Incendiary (supposed)	62
Kerosene-oil	177
Matches	281
Needless	166
Overheating	72
Sparks	139
Unknown	177
Vapors igniting	23
Water pipes attempt to thaw	29
	1,772

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MONTHLY STATEMENT

Of Alarms of Fires, Covers Spread, Extinguishers Used, Fire, Watch, and Extra Duty Peformed for the Year Ending March 1, 1901.

Months	Alarms.							Covers.		Extinguishers used.	Fire Duty.		Watch Duty.		Extra Duty.		
	Bell.	Still.	Automatic.	Ext. by occt.	Total.	Sprinklers operated on fires.	Sprinkler breaks and leaks.	Covers.	Roof.		Hours.	Minutes.	Hours.	Minutes.	Hours.	Minutes.	Extra covers.
March, 1900	95	35	3		133	2	4	497	15	16	121	17	586	44	71	42	22
April, "	108	22	6	3	139	2	7	154	14	2	96	24	677	13	11	46	5
May, "	87	24	6	1	118		5	410	29	9	90	22	367	57	23	24	
June, "	129	50	9		188	1	5	270	21	9	128	37	334	27	40	16	34
July, "	147	43	13	2	205	1	3	317	18	5	158	52	402	16	18	32	
August, "	83	30	12	2	127	1	2	371	34	9	118	42	478	45	54	27	
Sept., "	92	21	6	1	120	1	3	143	12	12	95	40	390	43	12	38	
Oct., "	87	22	10	3	122		2	140	13	3	89		353	20	7	06	
Nov., "	90	30	10		130			220	37	5	88	06	451	00	43	07	8
Dec., "	127	36	12	2	177			474	8	9	95	30	1180	50	46	38	
Jan., 1901	113	43	10	2	168			356	23	11	128	38	819	44	22	33	
Feb., "	96	38	8	3	145			756	40	11	115	26	725	10	40	19	
	1254	394	105	19	1772	8	31	4108	264	101	1326	34	6768	15	392	28	69

Comparison of Fires, Covers Spread, Fire and Watch Duty performed for twenty-one years, each year commencing March 1, and ending the last day of February.

Years.	Fires.	Covers Spread.	Fire Duty.		Watch Duty.	
			Hrs.	Min.	Hrs.	Min.
1880	587	1,596	561	10	886	30
1881	521	1,364	670	00	1,508	30
1882	510	1,910	692	40	1,432	15
1883	648	2,948	966	50	2,479	30
1884	648	2,338	622	55	3,433	45
1885	669	2,361	662	55	3,292	10
1886	662	1,572	525	55	1,472	50
1887	798	1,638	648	55	2,486	30
1888	819	2,292	668	50	2,291	20
1889	820	1.879	615	49	3,986	40
1890	922	1,819	674	10	2,567	05
1891	1,015	2,683	820	05	2,611	30
1892	1,242	2,722	1,061	00	5,554	30
1893	1,189	3,455	1,155	45	5,179	15
1894	1,276	2.730	967	40	5,686	
1895	1.296	2.462	997	45	4,964	45
1896	1,310	2,712	1,075	36	3,557	39
1897	1,527	2,551	1,097	03	5,047	38
1898	1,505	2,616	1 193	48	4,976	43
1899	1,793	3.786	1,695	14	8,237	39
1900	1,772	4,128	1,326	34	6,768	15

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MONTHLY STATEMENT

Of Insurance and Loss on Buildings, Contents, Rents, and Marine, for the year ending March 1, 1901.

Months.	Buildings.		Contents.		Losses not Insured.		Total.		Rents.		Marine.		Sprinklers.	
	Insurance.	Loss.	Insurance.	Loss.	Buildings.	Contents.	Insurance.	Loss.	Insurance.	Loss.	Insurance.	Loss.	Insurance.	Loss.
March, '00	$ 894,714.08	$ 58,713.78	$1,475,525.00	$135,564.16	$ 8,475.00	$ 7,469.99	$ 2,370,239.08	$210,222.93	$ 6,000.00	$1,923.37			$20,000.00	$ 33 65
April,	1,129,914.00	23,330.58	118,650.00	12,263.48	430.00	1,070.88	1,248,564.00	37,094.94	10,000 00	15.00			5,000.00	639 23
May,	1,278,708.33	36,959.29	566,100.00	114,550.52	277.00	3,384.00	1,844,808.33	155,170.81	65,500.00	6,942 54			20,000.00	91.34
June,	678,000.00	23,895.13	243,693.00	39,815.72	750.00	2,595.45	921,693.00	67,057.30						
July,	852,720.00	42,683.09	478,125.00	156,439.26	38,081.00	171,161.38	1,330,845.00	408,364.73	16,000.00	3,159.98			50 000.00	25.00
Aug.,	697,464.00	35,756.54	357,390.00	70,688.90	5,504.15	9,428.72	1,054,854.00	121,378.31	51,000.00	3,451.88			30,000 00	556.44
Sept.,	558,119.43	38,859.05	480,748.00	49,435.81	1,686.00	5,231.77	1,038,867.43	95,212.63			not ins.	2,000.00		
Oct.,	1,332,200.00	14,558.43	472,700.00	47,756.65	225.00	1,484.00	1,804,900.00	64,024 08					10,000.00	129.18
Nov.,	536,477.25	20,057.60	189,075.00	28,528.69	262.75	822 00	725,552.25	49,671 04	11,000.00	†164.38				
Dec.,	1,603,150.00	62,437.30	952,675.00	204,007.72	144.25	2,502.37	2,555,825.00	269,091 64	10,000.00					
Jan., 1901	779,161.00	* 60,129.72	438,350.00	93,617.19	5 00	1,392.36	1,217,511.00	155,144.27	7,400 00	†177.67			‡20,000.00	84.01
Feb.,	1,144,315.00	* 45,242.48	629,598 00	90,526.81	295 00	2,564.29	1,773,943.00	138,628.58	22,000 00	3,048.73			‡ 1,000.00	
	$11,484,973.09	$462,622.99	$6,402,629.00	$1,043,194.91	$56,135.15	$209,107.21	$17,887,602 09	$1,771,060 26	$ 198,900.00	$18,883.55		$2,000 00	$156,000.00	$1,558.85

*Unsettled losses are estimated. †Not all settled. ‡Partially settled.

Comparison of Insurance and Losses for Twenty Years, each year commencing March 1st, and ending the last day of February.

Year.	Insurance.	Total Loss.	Loss not insured.
1880	$6,009,756.00	$1,056,468.00	$ 56,197.83
1881	3,801,564.11	551,058.82	172.401.59
1882	5,209,049.83	940,073 69	163,160 05
1883	6,972,141.29	1,100,381.81	123.389.95
1884	6,933,012.24	1,256.944.74	148,422 58
1885	6,371,291.77	1,167,835.28	281,344.66
1886	4,194,491.11	905.080.68	150,187.90
1887	6,440,032.21	734,737.21	112,338.37
1888	7,490,420.52	1,080,217.96	814.056.39
1889	13,014,984.37	5,078,142.18	57,404.05
1890	7,730,043.60	787,577.27	128.258.03
1891	10,109,612.58	1,582,932.14	150.096.59
1892	10,977,922.67	2,293,235.98	400.126.09
1893	15,024,654.12	3,953,121.69	226,382.22
1894	10,694,969 25	1,434,266.25	117,358.42
1895	10,615.072.81	1,294.274 32	89,785.56
1896	12,606,268 17	1,203,533 26	76,253.80
1897	12,356,417.02	990.992.34	70,682.51
1898	14,102,311.34	1,445,434.37	191 611 19
1899	18,075,199.58	1,706,906 57	265.242.36
1900	17.887,602.09	1.771.060.26	

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FIRES AND ALARMS.

By Months, Days of the Week, Days of the Month, and Hours of the Day, from March 1, 1900, to March 1, 1901.

Months.		Days of Week.		Days of the Month.		Hours of the Day.		
				1	60			
				2	64	Day Service.	6 to 7 A. M.	39
March, 1900.	133	Monday . .	277	3	66		7 ,, 8 ,,	38
				4	85		8 ,, 9 ,,	60
April ,,	139	Tuesday .	244	5	67		9 ,, 10 ,,	57
				6	54		10 ,, 11 ,,	77
May, ,,	118	Wednesday	266	7	42		11 ,, 12 NOON.	85
				8	67		12 ,, 1 P. M.	64
June, ,,	188	Thursday .	275	9	38		1 ,, 2 ,,	79
				10	58		2 ,, 3 ,,	85
July, ,,	205	Friday . .	226	11	51		3 ,, 4 ,,	82
				12	71		4 ,, 5 ,,	106
August, ,,	127	Saturday .	245	13	54		5 ,, 6 ,,	110
				14	54	Night Service.	6 ,, 7 ,,	122
September, ,,	120	Sunday . .	239	15	75		7 ,, 8 ,,	135
				16	60		8 ,, 9 ,,	127
October, ,,	122			17	68		9 ,, 10 ,,	97
				18	66		10 ,, 11 ,,	90
November, ,,	130			19	57		11 ,, 12 MIDN.	69
				20	70		12 ,, 1 A. M.	66
December, ,,	177			21	54		1 ,, 2 ,,	51
				22	53		2 ,, 3 ,,	50
January, 1901.	168			23	55		3 ,, 4 ,,	27
				24	52		4 ,, 5 ,,	27
February, ,,	145			25	50		5 ,, 6 ,,	29
				26	47			
				27	56			
				28	56			
				29	47			
				30	44			
				31	31			
Totals,	1772		1772		1772			1772

Marine Fires, 1. No loss to Companies.
Sprinkler Calls, 56.

DISTRICTS WHERE ALARMS WERE GIVEN.

City Proper	905
Roxbury District	254
Charlestown "	132
East Boston "	136
South Boston "	95
Dorchester "	121
West Roxbury "	91
Brighton "	38
Total	1772

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CLASSIFICATION OF COVERS SPREAD.

80	Fires	of	1	Cover	each	.	80	3	Fires	of	28	Covers	each	.	84
45	"	"	2	Covers	"	.	90	1	"	"	31	"	"	.	31
32	"	"	3	"	"	.	96	2	"	"	32	"	"	.	64
21	"	"	4	"	"	.	84	1	"	"	36	"	"	.	36
20	"	"	5	"	"	.	100	2	"	"	42	"	"	.	84
11	"	"	6	"	"	.	66	1	"	"	47	"	"	.	47
7	"	"	7	"	"	.	49	2	"	"	48	"	"	.	96
9	"	"	8	"	"	.	72	2	"	"	52	"	"	.	104
4	"	"	9	"	"	.	36	1	"	"	56	"	"	.	56
6	"	"	10	"	"	.	60	1	"	"	64	"	"	.	64
2	"	"	11	"	"	.	22	2	"	"	68	"	"	.	136
6	"	"	12	"	"	.	72	1	"	"	73	"	"	.	73
3	"	"	13	"	"	.	39	1	"	"	74	"	"	.	74
7	"	"	14	"	"	.	98	2	"	"	76	"	"	.	152
2	"	"	15	"	"	.	30	2	"	"	80	"	"	.	160
2	"	"	16	"	"	.	32	1	"	"	83	"	"	.	83
3	"	"	17	"	"	.	51	1	"	"	95	"	"	.	95
1	"	"	19	"	"	.	19	1	"	"	97	"	"	.	97
2	"	"	20	"	"	.	40	1	"	"	101	"	"	.	101
4	"	"	21	"	"	.	84	1	"	"	148	"	"	.	148
5	"	"	23	"	"	.	115	1	"	"	154	"	"	.	154
1	"	"	24	"	"	.	24	1	"	"	168	"	"	.	168
2	"	"	25	"	"	.	50	1	"	"	255	"	"	.	255
1	"	"	26	"	"	.	26	1	"	"	274	"	"	.	274
1	"	"	27	"	"	.	27								
			Total fires			.	.	310			Total covers			.	4108

310 Fires, 4108 Covers. Averages, 13.25

COVERS.

STOCK COVERS.

On hand last report		597	
Condemned	14		
Turned over to roof covers	1		
Total stock covers			582

ROOF COVERS.

On hand last report	18		
Received from stock covers	1		
		19	
Condemned		5	
Total roof covers			14
Total covers on hand March 1, 1901			596

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GRADE OF LOSSES.

Grade of Losses for the year 1900, commencing January 1st, and ending December 31st.

		Aggregate.	Average.
634	Fires with no loss.		
	" " loss under $100	$21,316.69	$ 36.50
584	" " " from $100 to $500	72,201.87	229 22
315	" " " " $500 to $1,000	52,636.26	683 58
77	" " " " $1,000 to $5,000	241,791.37	2,031.09
119	" " " " $5,000 to $10,000	176,444.40	7.057.78
25	" " " " $10,000 to $15,000	73,967.23	12,327.87
6			
	Over $15,000 as follows:		
	Fire Jan 25, 25 Avon St., H. Crine	27,465.23	
1	" Feb. 27, 13 Federal Ct., Parker Holmes & Co. & others	26,151 29	
1	" Mar. 8, Rutherford Ave., Railroad & hay fire	32,248 97	
1	" " 11, 209 North St., W. G. Bell Co. & others	15.857.05	
1	" " 11, 67 Batterymarch St.	22,280.75	
1	" " 26, 232 Congress St., Carl H. Heintzeman & others	68,820.40	
1	" May 31, 605 Washington St., Pitts, Kimball & Co.	126,417.82	
1	" June 13, 91 Commercial St., Fearing, Hall & Whitten		
1	& others	29,222.18	
	" July 3, 506 Albany St., Leatherbee & Co.	115,800 24	$1,036,418.62
1	" " 6, 26 Eustis St., Wm. Curtis Sons Co.	23,155.42	
1	" " 19, Navy Yard, Government Bldgs. & others	194,269.50	
1	" Aug. 14, 15 India St., T. Gay & Co.	31,478.76	
1	" " 23, Post Office Sq., Stone, Webster & Co. & others	25,078 32	
1	" Sept. 15, 580 Albany St., Bradford & Co.	41,444.97	
1	" " 22, 74 Purchase St., Dalton, Ingersoll Co. & others	18,261.50	
1	" Oct. 26, 27 Court St., Abrams & Sons & others	39,018.80	
1	" Dec. 5, 194 Portland St., Heywood Bros. & Wakefield		
1	Co.	93,556.21	
1	" " 18, 82 Canal St., Freedman & Bro., & others	75.876.38	
1	" " 26, 151 Tremont St., Arthur O. Chartier	30,014.83	54,548.35
1779		$1,674,776.44	

The 1145 fires where there was a loss, the average was $1,462.68.

Comparison of total fires, total fires with loss, total loss, average loss of total fires, and average loss of fires with loss, for twenty years, commencing January 1, 1881

Year.	Total Fires.	Total Fires with Loss.	Total Loss.	Average Loss of Total Fires.	Average Loss of Total Fires with Loss.
1881	558	344	$ 467,105.82	$ 837.10	$1,357.86
1882	502	329	958,835.88	1,910.03	2,914.39
1883	641	371	1,132,982.18	1,767.52	3,053.86
1884	633	398	1,101,253.60	1,739.73	2,766.96
1885	655	397	1,232,255.05	1,881.30	3,103.91
1886	687	448	1,089,196.05	1,585.43	2,431.24
1887	754	460	690,454.11	915.72	1,500.98
1888	834	554	1,031,676.72	1,237.02	1,862.23
1889	788	494	4 819,446.67	6,103.15	9,756 84
1890	933	562	1,088,887.29	1,167.08	1,937.52
1891	1,012	606	1,511,674.51	1,542.53	2,494.51
1892	1,196	715	846,395.12	708.70	1,183.76
1893	1,233	684	5,024.765.04	2,654.39	7,346.14
1894	1,233	714	1,726,627.56	1,400.35	2,418.24
1895	1,234	719	1,195,343.28	968.62	1,662.41
1896	1,397	813	1 367,165.92	978.64	1,681.63
1897	1,435	957	861,203.64	600.15	899.86
1898	1,499	967	1,415 884.93	944.55	1,464.20
1899	1,768	1,108	1,699,900.57	961.43	1,534.20
1900	1,779	1,145	1,674.776.44	941.42	1,462.68
Total	20,771	12,785	$30,935,830.38	$1,489.37	$2,420.47

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CAUSES OF ALARMS AND FIRES.

(March 1, 1900 to March 1, 1901.)

Alarms false	31
" needless	135
Alcohol lamps	3
Ashes hot in wooden receptacles	32
Attempt to thaw water pipes	29
Assistance called for	3
Back draft	1
Burning sulphor	1
Boiling over of fat	17
" " oil	1
" " tar	9
" " wax	2
Bon fires	7
Boys, set by	89
Brush fires	13
Candles lighted	40
Chimney fires	17
Cigars lighted	18
Cigarettes	14
Chemicals	1
Defective chimneys	18
" constructions	10
" furnaces	1
" flues	10
" stove pipes	2
Electric light wires	45
" meters	2
Explosions	5
Fire crackers	46
" works	1
Friction of machinery	2
Fumigating	1
Gas-jets lighted	31
" and curtains	38
Gas leaks	9
" stoves	13
" metres	1
Gasoline stoves	6
" torches or furnaces	4
Grass fires	13
Hot coals	4
Incendiary	44
" supposed	18

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Kerosene-oil explosions	12
" lamps	38
" " upsetting or breaking	62
" " explosions of	18
" stoves	47
Lightning	4
Matches, careless use of	193
" and children	78
" " rats	10
Naphtha lamps	1
Overheated flues	1
" furnaces	8
" iron	2
" ovens	2
" ranges	2
" stoves	40
" smoke stacks	3
" steam pipes	5
" stove pipes	8
Painters' torches	2
Picker machines	1
Rekindling of fires	5
Roofer's furnace	1
Rubbish	18
Smelters	1
Smoky chimneys	17
" furnaces	4
" stoves	5
Soot burning	6
Steam escaping	6
Sparks from chimneys	29
" " engines	3
" " forges	10
" " fire engines	2
" " fire boxes	6
" " furnaces	5
" " flues	2
" " locomotives	19
" " smokers' pipes	49
" " stoves	14
Spontaneous combustion	45
Unknown	177
Vapor from alcohol	4
" " benzine	1
" " gasoline	6
" " naphtha	8
" " turpentine	1
Water leaks	3
Total	1772
No fire (Sprinkler Calls)	56
Marine (not insured)	1

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Statement of the Insurance; loss paid by companies; per cent. of insurance paid in losses by companies; loss not insured; total loss, and per cent. of total loss not insured on buildings and contents; for twenty years, each year commencing January 1, and ending December 31; also the total insurance; total loss paid by companies; per cent. of insurance paid in losses by companies; total loss, and per cent. of total loss not insured for twenty years.

BUILDINGS

Year	Insurance.	Loss paid by Companies.	Per cent. of Insurance Paid in Losses by Co.'s	Loss not Insured.	Total Loss.	Per cent. of Total Loss not Insured.
1881	$2.307,064.38	$115.612.03	5.01	$14,888.01	$130.500 04	11.40
1882	2,405.529.94	159,246.42	6.62	26,271.67	185.518.09	14.16
1883	3,856,784 88	334.981.10	8.68	23,478.10	358.459.20	7.00
1884	3.227.819 93	189,168.83	5.86	28,022.40	217,191 23	14.81
1885	3,070,687.86	221,801.75	7.22	24,240.96	246,042.71	9 85
1886	2.733,588 56	275,269.13	10.06	136,800.13	412,069.26	33.19
1887	3,290,462 47	171,871.93	5.22	68,206.29	240.078.22	28.41
1888	4,492,935.42	227,933.85	5.07	12.302.39	240.236.25	5.12
1889	4.583.384 25	911,382 45	19.88	330,747.20	1,242,129.65	26.62
1890	5.016,807.94	400,263.07	7.97	51,162 02	451,425.09	11.35
1891	5.337,350.42	315.821.99	5.89	26,496.70	342.318.69	7.74
1892	5,241,193 10	228,817.43	4.37	33,133.07	261.950.50	12.65
1893	8.047,857.57	1,289,054.22	16.02	115,994 73	1,405.048 95	8.26
1894	6,849,379.33	636,964.32	9.30	236,195.41	873,159.73	27.05
1895	6,657,272.17	433.404.36	6 51	44.048.45	477,452.81	9 22
1896	9,154,604.15	589.103.88	6.43	34 599 75	623,703.63	5.54
1897	8,637,104.31	281.515.16	3.26	21,091.21	302.606.37	6.96
1898	7,975,555,55	438.316 94	5.49	14,315 34	452.632.28	3 16
1899	12 021,964 00	590,745.17	4.91	45.196.71	635,941.88	7.11
1900	11,317,560 01	435 426.12	3 85	57,230 15	492.656 27	11.62
Tot.	$116,244,906.24	$8,246,700.15	7.09	$1.344,420.69	$9,591,120.85	14.02

CONTENTS.

Year	Insurance.	Loss Paid by Companies.	Per cent. of Insurance Paid in Losses by Co.'s	Loss not Insured.	Total Loss.	Per cent. of Total Loss not Insured.
1881	$1,598,163.23	$304,792.58	19.07	$31,813.20	$336,605.78	9.45
1882	2,475,362.73	622,795.39	25.16	150,522.40	773,317.79	19.46
1883	2,742,409.07	596,324.39	21.74	178,198.59	774,522.98	23.00
1884	4,244,172.75	781,134.46	18.40	102,927.91	884,062.37	11.64
1885	2,992,044.37	900,648.20	30.10	85,564.14	986,212.34	8.67
1886	2,270,318.15	499.804.78	22.01	177,322.01	677,126.79	26.18
1887	1,886,074.17	369,067.09	19.57	81,308.80	450.375.89	18.05
1888	3,573,802 81	715,197.05	20.01	76,243.41	791,440.47	9.63
1889	7,153,078.90	3,149,636.38	44.03	427,680.64	3,577,317.02	11.95
1890	3,162,556.68	560,584.18	17.72	76,878.02	637,462.20	12.06
1891	5,090,526.45	1,073,055.44	21.07	96,300.38	1,169,355.82	8.23
1892	3,239,858.48	503,131.35	15.53	81,313.27	584,444.62	13 93
1893	10,332,586.55	3,373,037,42	32.64	246,678.67	3,619,716.09	6.82
1894	3,893,242.42	669,857.10	17.25	183,610.73	853,467.83	21.51
1895	3,365,799.34	641,073.78	19.04	76,816.69	717.890.47	10.70
1896	4,060,722.82	674,830.31	16.61	68,631.98	743,462.29	9.23
1897	3.597,843.03	515,030.92	14.31	43,566.35	558,597.27	7.79
1898	4,301,196.37	891,288.56	20.72	71,964.09	963,252.65	7.47
1899	7,449,704.35	910,218.67	12.22	153,739.99	1,063,958.66	14.45
1900	6,715,581.00	972,158.44	14.47	209,961.73	1,182,120.17	12.23
Tot.	$84,145,043.66	$18,723,666.49	22.25	$2,621,043.00	$21.344,709.50	12.22

TOTAL.

Year.	Total Insurance on Buildings and Contents.	Total Loss on Buildings and Contents paid by Companies.	Per cent. of total Insurance Paid in Losses by Co.'s	Total Loss on Buildings and Contents.	Per cent. of Total Loss to Insurance
1881	$3,905,227.61	$420,404.61	16.76	$467,105.82	11.96
1882	4,880,892.67	782,041.81	16.02	958,835.88	19.64
1883	6,599,193.95	931,305.49	14.11	1,132,982.18	17.16
1884	7.471,992.68	970,303.29	12.98	1,101,253.60	14.73
1885	6,062,732.23	1,122,449.95	18.51	1,232,255.05	20.32
1886	5,003,906.71	775,073.91	15.48	1,089,196.05	21.76
1887	5,176,536.64	540,939.02	10.45	690,454.11	13.34
1888	8,066,738.23	943,130.90	11.69	1,031,676.72	12.79
1889	11,736,463.15	4,061,018.83	34.60	4,819,446.67	41.06
1890	8,179,364.62	960.847.26	11.74	1,088,887.29	13.31
1891	10,447,876.87	1,388,877.43	13.29	1,511,674.51	14.47
1892	8.481,051.58	731,948.78	8.62	846,395.12	9.97
1893	18,380,444.12	4,662,091.64	25.36	5,024,765.04	27.32
1894	10,742,621.75	1.306 821.42	12.16	1,726,627.56	16.05
1895	10,023,071.51	1,074,478.14	10.72	1,195,343.28	11.92
1896	13,215,326.97	1,263,934.19	9.56	1,367,165.92	10 35
1897	12,234,947.33	796,546.08	6.51	861.203.64	7.04
1898	12,276,751.92	1.329,605 50	10.83	1,415,884.93	11.53
1899	19,471,668.35	1,500,963.84	7.71	1,699,900.57	7.71
1900	18,033,141.01	1,407,584.56	7.80	1,674,776.44	9.28
Tot.	$200,389,949.90	$26,970,366.64	13.45	$30,935,830.38	15.44

Respectfully submitted,

EDWARD SPAULDING, *Secretary*.

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STATISTICS OF ALARMS AND FIRES FOR TEN YEARS.

Year	Area Sq. Mile.	Population Census 1900.	Number of Buildings in the City, &c.									Number of Alarms and Fires.								
			Brick, &c., Buildings last Report.	New Brick Buildings Completed.	Brick Buildings Totally Destroyed.	Total Brick Buildings.	Frame Buildings last Report.	Frame Buildings Completed (New).	Frame Buildings Totally Destroyed.	Total Frame Buildings.	Grand Total Brick and Frame Buildings.	Total Alarms.	Brick, Iron, &c.	Frame.	Outside.	Total Fires.	Confined to floor originated.	Confined to Building originated.	Extended to Adjoining Property.	Extended beyond Adjoining Prop'y.
1891	37 04	448,477				22,700				43,800	66,500	980	424	389	87	900	730	780	32	1
1892	" 100	"	22,700	329	1	23,028	43,800	1964	1	45,763	68,791	1196	510	495	89	1094	955	966	38	1
1893	"	"	23,028	252	13	23,267	45,763	1611	3	47,371	70,638	1233	500	403	264	1167	761	876	24	3
1894	"	"	23,267	398	12	23,653	47,371	1717	100	48,988	72,641	1233	477	460	115	1052	777	897	37	3
1895	"	"	23,653	328	1	23.980	48,988	1445	11	50,442	74,422	1234	471	457	96	1024	772	886	40	2
1896	"	496,920	23,980	337	25	24,292	50,442	1498	67	51,873	76,165	1397	546	485	101	1132	831	986	34	11
1897	"	"	24,292	364	68	24,588	51,873	2002	121	53,754	78,342	1438	613	542	126	1281	983	1107	39	9
1898	"	500,000	24,588	395	*84	24 899	53,754	1262	*62	54,954	79,853	1499	591	576	106	1273	995	1231	36	6
1899	"	"	24,899	317	*16	25,200	54,954	990	*205	55,739	80,939	1768	748	646	174	1568	116 2	1328	48	18
1900	"	†560,892	25,200	614	*18	25,796	55,739	1238	*48	56,929	82,725	1779	734	634	192	1560	113 8	1290	47	31

Year	Total Loss thereon.	Total Insurance thereon.	Total Insurance Loss thereon.	No. of Fires to 1000 Population.	Per cent. of Fires confined to Building.	Loss Per Capita.	Marine Fire Loss and Insurance. Total Loss thereon.	Total Insurance thereon	Total Insurance Loss thereon.	Rents, Fire Loss and Ins. Total Loss thereon.	Total Insurance thereon.
1891	$1,511,674.51	$10,447,876.87	$1,388,877.43	2.00	.86	$3.37	$1,208.12	$ 3,000.00	$ 1,208.12	$ 5,325.31	$ 56,100.00
1892	846,395.12	8,481,051.58	731,948.78	2.44	.88	1.89	25,057.81	58.057.57	25,057.81	17,184.64	98,000.00
1893	5,024,765.04	18.380,444.12	4,662,091.64	2.60	.74	11.20	52,619.32	505,500.00	50,569.32	127,793.41	317,591.00
1894	1,726,627.56	10,742,621.75	1,306,821.42	2.35	.85	3.85	350.00	4,000.00	350.00	4,651.95	30,940.00
1895	1,195,343.28	10,023,071.51	1,074,478.14	2.35	.86	2.67	56,842.82	58.799.00	56,742.82	1,363.18	68,350.00
1896	1,367,165.92	13,215,326 97	1,263,934.19	2.28	.87	2.75	13,752.07	239,465.00	13,652 07	16,366 28	128,700.00
1897	861,203.64	12,234,947.33	796,546.08	2.87	.86	1.73	1,161.48	10.000.00	961.48	7,161.53	117,000.00
1898	1,415,884.93	12,276,751.92	1,329,605.50	2.54	.96	2.83	47,350.00	1,150,500.00	47,000.00	- 1,533.28	44,850.00
1899	1,699,900.57	19,471,668.36	1,500,963.84	3.12	.85	3.40	.....	.....	.....	19,259 28	99,800.00
1900	1,674,776.44	18,033,141.01	1,407.584 56	3 17	.83	2.99	‡2,000 00	.....	.....	47,154.74	203,750.00

†United States Census, June 1900. *20 frame buildings were totally destroyed by fire, 18 brick and 28 frame buildings were demolished. ‡Not insured.

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MEDICAL EXAMINER'S REPORT.

SAMUEL ABBOTT, JR.,
Supt. Boston Protective Department.

Dear Sir: As is customary at this time of the year, I forward the report of the work done by your Medical Officer for the year ending March 1, 1901, and herewith respectfully submit the same.

Number of applications for appointment	19
Number of applications for promotion	21
Number of visits made to sick members	63
Number of visits made to injured members	54
Number of attending physicians' reports examined	39
Number of special reports	3
Number of certificates of health to return to duty	29

The work according to months is as follows:

Month	App.	Prom.	Sick	Injured	Special	Rejections
March			1	1		
April			2	2		
May		3	2	2		
June	2		2			
July				1		
August	1		1	3	1	
September	1	4	1		1	
October	5	3	1	2		
November	2	6	2			
December	3	3	5	2		2
January	4	2	3	2		

Of those applying for promotion I am glad to say that it was not necessary either to postpone or reject any; of those applying for membership would say that four were postponed on account of temporary physical indisposition; two were rejected; one on account of physical pre-disposition to disease, and the other because of an exceedingly bad family history and a physical condition which would probably eventuate, if exposed to the work which our department calls for, in a trouble similar to that to which several members of his family have already succumbed.

On investigation the causes for sick leave were found to be as follows:

La grippe	5
Mental depression	2
Muscular rheumatism	2
Acute indigestion	4
Acute tonsilitis	2
Abscess of tonsil	1
Simple fever	1
Dysentery	1
Malaria	1
Acute rheumatism	1
Pleurisy	2
Consumption	1
Typhoid fever	1

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The causes for abscence on account of injury were as follows:

Contusion of thigh	2
Strain of knee	3
Strain of wrist	1
Lacerated wound	1
Punctured wound of foot	1
Lacerated wound of scalp	1
Simple febricula	1
Contusion of back	3
Lacerated wound of hand	1
Contusion of chest	2
Dislocation of thumb	1
Punctured wound of hand	1
Contusion of ankle	3
Contusion of leg	1
Sprain of ankle	1

It may be interesting to note that eleven of those who reported themselves as sick or injured were found to be in a physical condition which admitted of their being recommended to report for duty. In several instances during the year those who have been sick or injured have made application to return to duty, but their physical condition has not seemed, in the opinion of your Medical Officer, to be such as to warrant their return with safety to themselves and the department.

SPECIAL REPORTS.

At the request of the Superintendent, Cornelius T. Lynch, who was a member of this department for some years, was visited, and special reports forwarded concerning his condition and recommendations in regard to the same. It was found that he had serious lung trouble, following typhoid fever, from which he was a sufferer during the summer, and it became evident that his condition was one of consumption, from which he died early in the fall.

Allow me to testify my conviction that the department has lost in this instance a faithful, honest, hard-working member, and one who always, so far as he could see it, did his duty.

A special report was also requested in the case of E. A. Whalen, who, I am glad to say, was found to be in condition to report for duty.

WM. F. TEMPLE, M. D.,
Medical Officer Boston Protective Department.

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EXHIBIT A.

Review of Disticts where alarms were given, for twenty years, from March 1st to March 1st, of each year

Years.	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	Total	Per Cent.
City Proper -	288	285	347	362	349	360	412	464	440	487	504	681	626	595	652	663	788	772	905	905	10,885	52.04
Roxbury - -	49	53	63	70	65	82	87	79	74	70	106	117	120	161	178	174	209	191	276	254	2,478	11.83
South Boston -	29	29	50	51	42	56	73	79	84	87	98	117	58	114	122	114	129	114	144	131	1,721	8.21
Charlestown -	35	41	46	42	48	41	62	57	63	94	104	121	107	118	93	105	109	114	108	136	1,644	7.85
East Boston -	45	50	51	44	47	51	67	51	61	51	57	63	75	76	73	66	68	103	102	95	1,296	6.18
Dorchester - -	25	27	38	47	39	26	30	31	31	61	54	60	60	118	81	84	99	100	129	120	1,260	6.01
West Roxbury -	33	17	33	12	45	24	38	34	44	41	63	55	22	68	65	62	75	62	88	91	972	4.65
Brighton - -	13	5	18	16	32	21	27	23	18	28	24	28	121	26	28	41	46	46	37	37	635	3.03
Cambridge - -	2		1	2							1				3			1	1	1	12	
Chelsea - -	1	1	1	1	1		1		1		1										8	
Brookline - -							1									1	1				3	
Everett - -		1							1												2	
Harbor - -					1			1									1			1	4	
Hyde Park - -																	1		1		2	.20
Milton - - -	1					1			1	1	1				1		1	1	2	1	11	
Newton - -									1												1	
Somerville - -				1					1	1	2							1			6	
Watertown - -		1								1											2	
Total Alarms -	521	510	648	648	669	662	798	819	820	922	1015	1242	1189	1276	1296	1310	1527	1505	1793	1772	20,942	100

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EXHIBIT B.

Review of causes of alarms and fires, for twenty years, from March 1st to March 1st, of each year

CAUSES.	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	Total	Per Ct.
Ashes wooden receptacles hot	7	9	14	5	9	8	13	21	4	14	11	16	21	11	23	24	19	20	20	32	301	1.43
Buildings, defective	23	26	21	24	21	23	24	30	24	25	24	33	32	33	41	39	38	49	42	39	611	2.92
Causes not enumerated	102	81	117	96	129	98	136	122	151	233	308	285	255	263	249	210	230	244	390	344	4043	19.30
Combustion, spontaneous	17	34	30	18	13	23	29	32	21	34	34	56	32	37	38	50	36	39	63	45	681	3.25
Electricity	0	0	4	3	3	7	8	8	6	15	10	27	35	35	25	29	48	33	36	47	379	1.81
Fireworks	7	2	3	13	6	11	39	45	5	12	19	16	26	30	36	32	34	33	55	47	471	2.24
Gas	28	18	21	20	25	21	23	34	30	37	54	53	53	77	66	69	133	82	72	92	1008	4.81
Incendiary supposed	48	35	64	57	46	63	44	37	48	22	40	51	32	59	41	59	42	37	39	62	926	4.42
Kerosene oil	36	39	46	65	85	69	75	87	120	90	109	138	172	134	125	167	193	202	192	177	2321	11.08
Matches	65	60	94	78	65	102	147	110	110	94	135	150	166	175	179	168	251	211	287	281	2928	13.99
Needless	53	57	66	72	47	59	59	79	94	46	36	75	74	101	155	175	149	195	168	166	1926	9.19
Overheating	26	27	26	42	40	39	39	45	40	61	63	58	60	69	81	68	92	67	86	72	1101	5.25
Sparks	31	27	33	36	34	29	39	40	35	41	44	93	61	78	98	81	83	99	133	139	1254	5.98
Unknown	65	78	85	94	123	90	107	111	121	188	116	145	140	129	88	117	128	136	186	177	2424	11.57
Vapors igniting	7	12	11	4	14	13	5	10	10	6	7	11	15	24	23	13	32	27	10	23	277	1.32
Water Pipes, attempt to thaw	6	5	13	21	9	7	11	8	1	4	5	35	15	21	28	9	19	31	14	29	291	1.44
Totals	521	510	648	648	669	662	798	819	820	922	1015	1242	1189	1276	1296	1310	1527	1505	1793	1772	20,942	100.

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EXHIBIT C.

Review of hours in duty when alarms were received, for twenty years, from March 1st to March 1st, of each year.

	Years.	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	Total	Per Ct.
Day Service.	6 to 7 A.M.	7	10	11	10	11	17	17	16	10	12	16	22	33	28	27	18	27	34	31	39	396	4.907
	7 " 8 "	13	10	12	21	19	14	25	18	17	33	25	25	27	28	42	46	29	38	45	38	525	
	8 " 9 "	14	18	20	22	31	22	21	23	37	34	26	32	41	31	44	44	53	61	55	60	689	
	9 " 10 "	23	14	25	23	15	27	25	38	22	30	36	44	49	48	47	42	51	66	49	57	731	
	10 " 11 "	15	24	24	26	34	23	32	26	26	43	36	51	66	48	66	54	67	61	92	77	891	
	11 " 12 noon	23	17	24	28	32	19	26	36	29	37	39	46	42	66	57	50	74	62	73	85	865	19.56
	12 " 1 P M.	27	24	29	22	29	27	30	33	27	36	36	40	62	61	73	50	63	73	79	64	885	
	1 " 2 "	13	22	23	33	28	23	32	20	29	34	48	63	35	63	61	58	66	69	80	79	879	
	2 " 3 "	18	18	38	27	29	21	35	36	28	38	51	48	42	57	59	69	72	71	94	85	936	6.908
	3 " 4 "	24	16	39	28	28	13	39	41	31	40	46	70	53	66	64	64	66	66	90	82	966	
	4 " 5 "	23	22	31	34	28	8	45	45	42	56	50	87	67	62	81	55	66	72	99	106	1079	
	5 " 6 "	48	25	40	42	45	20	44	53	59	53	74	74	71	60	63	76	90	96	120	110	1263	
Night Service.	6 " 7 "	43	39	46	37	44	49	35	55	55	58	64	90	80	80	83	95	111	92	128	122	1406	28.69
	7 " 8 "	30	39	49	50	54	55	63	60	62	57	91	95	80	95	93	105	114	115	121	135	1563	
	8 " 9 "	39	35	45	45	42	42	58	58	67	91	82	88	100	96	78	78	110	127	130	127	1538	7.710
	9 " 10 "	32	24	36	49	40	31	56	57	54	62	58	65	71	80	79	90	96	96	110	97	1283	
	10 " 11 "	38	28	28	40	29	37	39	37	57	48	50	66	58	67	54	76	71	75	85	90	1073	
	11 " 12 Md'n	17	23	31	17	23	26	45	35	42	37	29	50	42	53	52	60	85	46	65	69	847	
	12 " 1 A.M.	24	19	20	20	20	33	33	26	34	25	36	46	45	38	38	32	40	44	49	66	688	36.81
	1 " 2 "	15	23	23	15	27	30	24	32	29	30	25	45	26	35	30	46	47	32	44	51	629	
	2 " 3 "	8	20	21	16	24	26	22	20	21	19	34	24	26	31	23	32	34	28	49	50	528	3.128
	3 " 4 "	7	17	13	16	12	35	18	29	18	22	23	27	35	30	29	29	37	37	38	27	499	
	4 " 5 "	13	14	10	17	10	28	20	13	14	10	21	30	20	29	25	19	29	24	29	27	402	
	5 " 6 "	7	9	10	10	15	36	14	12	10	17	19	14	18	24	28	22	29	20	38	29	382	14.94
	Totals	521	510	468	648	669	662	798	819	820	922	1015	1242	1189	1276	1296	1310	1527	1505	1793	1772	20,943	100.

EXHIBIT D.

Review of days of the week when alarms were received, for twenty years, from March 1st to March 1st, of each year.

Days.	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	Total	Per Ct.
Monday	83	65	88	93	85	109	139	113	98	111	130	180	143	179	191	188	253	244	270	277	3039	14.51
Tuesday	73	74	107	89	84	98	98	109	131	150	165	179	201	166	163	180	223	230	319	244	3083	14.72
Wednesday	76	87	101	98	102	95	113	130	118	122	155	187	199	227	186	188	228	229	256	266	3163	15.10
Thursday	65	52	84	90	98	87	131	115	115	147	136	202	171	198	192	147	204	185	223	275	2917	13.93
Friday	84	74	98	100	109	79	111	123	138	162	139	157	157	180	181	223	203	218	256	226	3018	14.40
Saturday	65	81	88	93	112	103	122	133	120	137	169	189	155	171	223	221	214	203	267	245	3111	14.87
Sunday	75	77	82	85	79	91	84	96	100	93	121	148	163	155	160	163	202	196	202	239	2611	12.47
Totals	521	510	648	648	669	662	798	819	820	922	1015	1242	1189	1276	1296	1310	1527	1505	1793	1772	20,942	100

EXHIBIT E.

Review of grade of losses for twenty years, commencing January 1st and ending December 31st, of each year.

Years	Total Al'm	No Loss	Under $100	$100 to $500	$500 to $1000	$1000 to $5000	$5000 to $10,000	$10,000 to $15,000	Over $15,000	Total Fires with Loss	Average loss to Total fires with loss.
1881	558	214	156	84	32	47	11	7	7	344	$1,357.86
1882	502	173	124	87	32	54	13	5	14	329	2,914.39
1883	641	270	124	109	30	64	14	14	16	371	3,053.86
1884	633	235	169	93	46	57	14	3	16	398	2,766.96
1885	655	258	167	98	41	62	11	4	14	397	3,103.91
1886	687	239	217	125	39	43	12	3	9	448	2,431.24
1887	754	294	197	115	51	65	16	6	10	460	1,500 98
1888	834	280	262	140	45	72	12	3	20	554	1,862.23
1889	788	294	220	137	46	54	20	5	12	494	9,756.84
1890	933	371	283	140	39	68	15	3	14	562	1,937.52
1891	1012	406	307	130	45	83	16	9	16	606	2,494.51
1892	1196	481	350	185	64	83	14	9	10	715	1,183.76
1893	1233	549	342	161	50	86	22	5	18	684	7,346.14
1894	1233	519	331	202	60	83	16	8	14	714	2,418.24
1895	1234	515	365	180	55	84	15	4	16	719	1,662.41
1896	1397	584	383	221	64	102	22	2	19	813	1,681.63
1897	1435	478	543	229	60	88	17	10	10	957	899.86
1898	1499	532	513	250	76	93	14	6	15	967	1,464.20
1899	1768	660	571	278	91	114	21	8	25	1108	1,534.20
1900	1779	634	584	315	77	119	25	6	19	1145	1,462.68
Totals	20,771	7986	6208	3279	1043	1521	320	120	294	12,785	$2,420.47
Per Ct.	100	38.44	29.89	15.79	5.02	7.32	1.54	.58	1.42	61 55	

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